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| APPLICATION NO. | F | TLING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|-----------------------|-----------------------|------------|-----------------------|-------------------------|-------------------------|--|--|
| 09/888,079 | 09/888,079 06/22/2001 | | Signe Erickson Varner | 55821 (71699) | 6574 | | |
| 21874 | 7590 | 06/29/2005 | | EXAMINER | | | |
| EDWARDS & ANGELL, LLP | | | | DESANTO, M | DESANTO, MATTHEW F | | |
| P.O. BOX 5 | 5874 | | | | | | |
| BOSTON, MA 02205 | | | | ART UNIT | PAPER NUMBER | | |
| | | | | 3763 | | | |
| | | | | DATE MAILED: 06/29/200: | DATE MAILED: 06/29/2005 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|---|---|--|--|--|--------------|--|--|--|--|
| _ | | Application | No. | Applicant(s) | | | | | |
| | Office Action Summany | 09/888,079 | | VARNER ET AL. | | | | | |
| | Office Action Summary | Examiner | | Art Unit | | | | | |
| | 7 | Matthew F. | | 3763 | | | | | |
| Period fo | The MAILING DATE of this communication app or Reply | pears on the (| over sheet with the | correspondence addi | ress | | | | |
| THE - External ending of the afternal endin | ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl' pretor for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no even ly within the statute will apply and will e, cause the applic | t, however, may a reply be to ory minimum of thirty (30) da expire SIX (6) MONTHS from ation to become ABANDONI | imely filed sys will be considered timely. In the mailing date of this com ED (35 U.S.C. § 133). | nmunication. | | | | |
| Status | | | | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 21 M | 1arch 2005. | | | | | | | |
| 2a)□ | ☐ This action is FINAL. 2b)☑ This action is non-final. | | | | | | | | |
| 3) 🗌 | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | | |
| | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | | |
| Dispositi | ion of Claims | | | | | | | | |
| 5)□ 6)⊠ 7)□ | Claim(s) 23-35,38,41-47 and 59-78 is/are pend 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 23-35,38,41-47 and 59-86 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or contents and some contents are subject to restriction. | wn from cons | sideration. | | | | | | |
| Applicat | ion Papers | | | | | | | | |
| 10) | The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex | cepted or b) cepte | held in abeyance. Sed if the drawing(s) is o | ee 37 CFR 1.85(a). bjected to. See 37 CFF | | | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | | | |
| a) | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list | ts have been ts have been prity documer u (PCT Rule | received. received in Applica its have been receiv 17.2(a)). | tion No ved in this National S | stage | | | | |
| Attach | | | | | | | | | |
| Attachmen 1) Notice | n(s) ce of References Cited (PTO-892) | | 4) 🔲 Interview Summar | y (PTO-413) | | | | | |
| 2) Notice 3) Information | ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date | , | Paper No(s)/Mail [| | 152) | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 23-30,32,33-40,42-44,47-52,54,55,58-65,67-69, and 72-78 are rejected under 35 U.S.C. 102(e) as being anticipated by Paques et al. (US Pub 2003/0171722).

Paques et al. discloses a method for treating an eye with a device comprising a piercing member (4) with an outer diameter less than 25 gauge (0053) allowing the puncture location to self-seal and having a flexible plastic tube therein (0087) to administer a therapeutic substance to the eye. The device is used to treat conditions such as vascular occlusion (0039) by advancing the device transconjunctively and piercing the sclera of the eye and delivering a therapeutic agent subretinally (Figure 1, 2, 3 and paragraph [0105]-[0113]).

3. Claims 23-35, 38, 41-47, and 59-76 are rejected under 35 U.S.C. 102(b) as being anticipated by Josephberg (USPN 5,989,262).

Josephberg discloses a method for treating an eye with a device comprising a piercing member with an outer diameter less than 25 gauge allowing the puncture location to self-seal and having a flexible plastic tube therein to administer a therapeutic substance to the eye. The device is used to treat conditions

such as vascular occlusion by advancing the device transconjunctively and piercing the sclera of the eye and delivering a therapeutic agent subretinally (Figure 1, 2, 3 and entire reference).

4. Claims 23-35, 38, 41-47, and 59-78 are rejected under 35 U.S.C. 102(e) as being anticipated by Trese (USPN 6,428,553).

Trese discloses a method for treating an eye with a device comprising a piercing member with an outer diameter less than 25 gauge allowing the puncture location to self-seal and having a flexible plastic tube therein to administer a therapeutic substance to the eye. The device is used to treat conditions such as vascular occlusion by advancing the device transconjunctively and piercing the sclera of the eye and delivering a therapeutic agent subretinally (Figure 1, 2, 3, 4, 5, 6 and entire reference).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 31,45,46,56,57,70,71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paques et al. in view of del Cerro et al (USPN 5,409,457).

Paques et al., as described above, teaches a device for subretinal delivery of a therapeutic agent wherein the device has an outer piercing member and an inner cannula, but fails to teach withdrawal of fluid from the eye.

Del Cerro et al. teaches a device comprising a tip for penetrating the subretinal region of the eye to deliver a therapeutic agent or withdraw fluid from the eye (column 4, line 31).

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It would have been obvious to one skilled in the art at the time of the invention to withdraw fluid from the eye in order to reduce the pressure in the eye, as well as to deliver therapeutic fluid to treat the disease or injury both actions possible with the syringe connected to the device of Paques.

6. Claims 41, 53, 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paques et al. in view of Bowman et al. (USPN 6,378,526)

Paques et al., as described above, teaches a device for subretinal delivery of a therapeutic agent wherein the device has an outer piercing member and an inner cannula, but fails to teach the delivery of steroids.

Bowman et al., teaches a device for delivery of a therapeutic agent such as steroids, genetic material, or pharmaceuticals to the eye.

It would have been obvious to one skilled in the art at the time of the invention to deliver agents such as steroids to the eye depending on the needs of the patient.

Response to Arguments

- 7. Applicant's arguments filed 3/21/05 have been fully considered but they are not persuasive.
- 8. With regards to a method of inserting a device into the eye by piercing the eye with the needle and then followed by inserting the piercing member and the cannula into the eye is taught in Paques paragraph [0108]. In paragraph [0108],

106] Under either local or general anesthesia, a conventional pars-plans approach with vitrectomy with separated infusion is performed. The instrument of FIGS. 1-3 is used to introduce the needle 4 and the distal end 14d of the optical fiber 14 into the eye through a scierotomy. The distal extremity of the seedle is brought coaxially close to the retinel vein, approximately 500-2000 microns from the optic disc. The site of penetration of the vein can be nasal, temporal, inferior or superior according to the clinical and anatomical features of the fundus vessels of the eye to be treated. The retinal vain is then penerrated with the sharp distal end of the needle 4 (FIG. 3), which is preferably 30-120 microns diameter. A fibrinolytic agent, such as recombinant tissue plasminogen activator (rTPA) or streptokinase, is then injected to dissolve the vein thrombus.

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10. The instrument is introduced the needle and cannula into the eye through a sclerotomy (which is

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an incision in the sclera of the eye). Therefore, the needle and cannula must pierce the eye as claimed in

the prior art, since the needle must travel through the eye. Also the needle and cannula treat the eye by a

fibrinolytic agent, which can be seen in the above paragraph.

11. The 112 Rejections are withdrawn because of the remarks by the applicant.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Matthew F. DeSanto whose telephone number is 571-272-4957. The examiner can

normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick

LUCCHESI can be reached on (571) 272-4977. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Matthew DeSanto Art Unit 3763

June 27, 2005

NICHOLAS D. LUCCHESI

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700